

110TH CONGRESS  
1ST SESSION

# H. R. 2774

To support the research, development, and commercial application of solar energy technologies, and for other purposes.

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IN THE HOUSE OF REPRESENTATIVES

JUNE 19, 2007

Ms. GIFFORDS introduced the following bill; which was referred to the Committee on Science and Technology

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## A BILL

To support the research, development, and commercial application of solar energy technologies, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-*  
2       *tives of the United States of America in Congress assembled,*

3       **SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “Solar Energy Research  
5       and Advancement Act of 2007”.

6       **SEC. 2. DEFINITIONS.**

7       For purposes of this Act:

8               (1) The term “Department” means the Depart-  
9       ment of Energy.

1           (2) The term “Secretary” means the Secretary  
2       of Energy.

3       **SEC. 3. THERMAL ENERGY STORAGE RESEARCH AND DE-**  
4                               **VELOPMENT PROGRAM.**

5           (a) ESTABLISHMENT.—The Secretary shall establish  
6       a program of research and development to provide lower  
7       cost and more viable thermal energy storage technologies  
8       to enable the shifting of electric power loads on demand  
9       and extend the operating time of concentrating solar  
10      power electric generating plants.

11          (b) AUTHORIZATION OF APPROPRIATIONS.—There  
12      are authorized to be appropriated to the Secretary for car-  
13      rying out this section \$5,000,000 for fiscal year 2008,  
14      \$7,000,000 for fiscal year 2009, \$9,000,000 for fiscal year  
15      2010, \$10,000,000 for fiscal year 2011, and \$12,000,000  
16      for fiscal year 2012.

17       **SEC. 4. CONCENTRATING SOLAR POWER COMMERCIAL AP-**  
18                               **PLICATION STUDIES.**

19          (a) INTEGRATION.—The Secretary shall conduct a  
20      study on methods to integrate concentrating solar power  
21      into regional electricity transmission systems, and to iden-  
22      tify new transmission or transmission upgrades needed to  
23      bring electricity from high concentrating solar power re-  
24      source areas to growing electric power load centers  
25      throughout the United States. The study shall analyze and

1 assess approaches for management and integration of con-  
2 centrating solar power into regional electric transmission  
3 grids to improve electric reliability, to efficiently manage  
4 load, and to reduce demand on the natural gas trans-  
5 mission system for electric power. The Secretary shall sub-  
6 mit a report to Congress on the results of this study not  
7 later than 12 months after the date of enactment of this  
8 Act.

9 (b) WATER CONSUMPTION.—Not later than 6  
10 months after the date of the enactment of this Act, the  
11 Secretary of Energy shall transmit to Congress a report  
12 on the results of a study on methods to reduce the amount  
13 of water consumed by concentrating solar power systems.

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